IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. §1.121:

1.

at least one source unit configured to generate messages for relay;
a smart node capable of storing programming instructions, receiving messages for relay from said source unit, determining at least a merit value for said received messages, dynamically reprioritizing the received messages for relay based upon said merit value,

(previously presented) A communications network, comprising:

at least one portal node adapted to receive said reprioritized received messages transmitted from said smart node.

and transmitting the reprioritized received messages; and

- 2. (previously presented) The communications network as specified in claim 1, wherein said smart node comprises an electronic computer for executing said programming instructions.
- 3. (previously presented) The communications network of claim 1, wherein said programming instructions comprise active messages.
- 4. (previously presented) A communications network, comprising: at least one source unit configured to generate messages for relay; a smart node capable of receiving programming instructions, storing said programming instructions, receiving messages for relay from said source unit, storing the received messages for relay in a queue, determining at least a merit value for said received messages, and dynamically reprioritizing the received messages for relay in said queue based upon said merit value;

at least one portal node adapted to receive said retransmitted received messages from said at least one smart node for relay; and

at least one communications node adapted to send said programming instructions to said smart node.

5. (currently amended) The communications network of claim 4 [14], wherein said smart node comprises:

a message storage queue;

a transmitter;

a receiver;

a queue controller for writing messages received at said smart node into said message storage queue and for removing messages from said message storage queue for relay transmission by said transmitter; and

a dynamic reprioritization controller for specifying an order of transmission of said removed messages for relay transmission by said transmitter.

- 6. (previously presented) The communications network of claim 5, including at least one receiver for receiving said messages for relay from said source unit.
- 7. (currently amended) The communications network of claim 4 [1], wherein said merit value for said received messages is determined heuristically.
- 8. (previously presented) The communications network of claim 4, wherein said merit value for said received messages is determined heuristically.
- 9. (previously presented) A method for dynamic reprioritizing messages, comprising:

receiving messages from a source unit; storing said received messages in a buffer unit; determining a merit value for said received messages; reprioritizing said received messages based upon said merit value; and transmitting the reprioritized received messages.

- 10. (currently amended) The method of claim 9, wherein said merit value for said received messages is may be determined heuristically.
- 11. (previously presented) The method of claim 9, wherein said received messages are stored in a queue.
- 12. (previously presented) The method of claim 9, wherein a smart node reprioritizes said received messages.
- 13. (previously presented) The method of claim 12, wherein said smart node transmits said reprioritized received messages.
- 14. (previously presented) The method of claim 12, wherein said smart node receives programmable instructions from a communication node.